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July 09, 2002

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M6M 3B2

Application No. : **2,387,057**
Owner : JAMIESON, WILLIAM M.
Title : SNAP TRACK DECORATIVE MOLDINGS

Dear Sir:

Your application for Patent has been allotted the above mentioned serial number and the filing date of **June 4, 2002**.

Please find enclosed various items explaining the patent process.

Sylvie Spencer
Patent Formalities Clerk
(819) 994-3312

994-0045



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TORONTO Ontario
M6M 3B2

Date : 2002/07/02

FILING CERTIFICATE

Application No.	: 2,387,057	Filing Date	: 2002/06/04
Expected Laid-Open Date	: 2003/12/04	Your Reference	:
Title of Invention	: SNAP TRACK DECORATIVE MOLDINGS		
Applicant(s)	: JAMIESON, WILLIAM M.		
Inventor(s)	: JAMIESON, WILLIAM M.		

Special Notice

You are reminded that annual fees to maintain your application are needed for each one-year period between the 2nd and 20th anniversaries and must be paid on or before each anniversary. Failure to pay within the prescribed time limit will lead to abandonment of your application.

Commissioner of Patents

Canada



Petition for Grant of a Patent

1. The applicant, William Maurice Jamieson, whose complete address is 2 Fox Point, Toronto, Ontario, Canada, M6M 3B2, requests the grant of a patent for an invention, entitled **Snap Track Decorative Moldings**, which is described and claimed in the accompanying specification.
2. This application is a division of application number filed in Canada N/A.
3. The inventor is William Maurice Jamieson, whose complete address is 2 Fox Point, Toronto, Ontario, Canada, M6M 3B2, 416-247-9124 and the applicant owns in Canada the whole interest in the invention.
4. The applicant requests priority in respect of the application on the basis of the following previously filed application:

<i>Country of filing</i>	<i>Application Number</i>	<i>Filing Date</i>
N/A	N/A	N/A

5. The applicant appoints William Maurice JAMIESON, whose complete address is 2 Fox Point, Toronto, Ontario, Canada, M6M 3B2, 416-247-9124 as the applicant's representative in Canada, pursuant to section 29 of the Patent Act.
6. The applicant appoints William Maurice JAMIESON, whose complete address is 2 Fox Point, Toronto, Ontario, Canada, M6M 3B2, 416-247-9124, as the applicant's patent agent.
7. The applicant believes that the applicant is entitled to claim status as a "small entity" as defined under Section 2 of the *Patent Rules*.
8. The applicant requests that **Figure No. 17** of the drawings accompany the abstract when it is open to public inspection under section 10 of the Patent Act or published.

William Maurice Jamieson

Date

SLIDING SNAP TRACK DECORATIVE MOLDINGS

Abstract

In decorative moldings, the customary methods of installation are by fastening the component parts to a supporting surface by using adhesives, clips, tape, screws or nails and subsequently filling any holes in the surface with a compound that is compatible to the molding material.

In this invention, a main track of extended length and flexible sides is anchored to a supporting surface that typically would be a wall or ceiling. The flexible sides are tapered at the end to form a locking step that is designed to receive a cover. The track channel is also designed to act as a conduit for transporting electrical wires or cable. Once the desired wall or ceiling grid is established, the channel track can be cut to the desired length.

A plurality of decorative blocks to act as 90 degree corner blocks, passage blocks, three way border blocks and four way cross pattern blocks. Once snapped into position, these blocks can be adjusted on the channel track to fit in the desired position.

The largest exposed surface of these decorator blocks has a recess or cavity with short protruding flanges that allows a decorative medallion having tapered sides, to snap into place in the same manner as the blocks snap into place on the channel track.

The cover for this fixed track channel has such a design that allows a cover to snap into position when fit over the channel track. The cover has the ability to slide along the track to facilitate precise positioning. Once the exact grid is established, the channel cover can be cut to the required length. The cover butts up to the decorative blocks. The inside of said channel track cover has short protruding flanges that serve as a stop for the tapered flexible locking step sides of the track channel once the track channel cover is snapped into position.

Indentations or cavities along the exterior sides and bottom of the track cover permit the attachment of decorative moldings in the manner that the track channel cover is attached to the channel track. These decorative molding strips can be cut to the desired length.

The indentations in the sides of the channel track cover, the bottom of said channel track cover, the underside of the decorator blocks, the underside of the variant decorator blocks, and the inside of the track channel cover are similar in design and function, but vary in size. Each has the ability to receive a tapered flexible locking step.

In a variant form, the blocks have a recessed area where the recesses meet the supporting surface that allows a wall or ceiling panel to be used with the dimensions of the grid established by the size of the panels. The panels rest on both the recessed area of the block and the top of the side moldings that snap into position on the channel track cover.

The result is decorative molding system that can be installed with a minimum of effort and is customized to the individual project. The moldings can be easily removed from the channel track cover by compressing the flexible sides of the locking step and pulling the molding out of the sides and bottom of the channel track cover. Once the side moldings have been removed, the panels are left resting on the recessed areas of the decorator blocks thus allowing for easy removal. This allows for molding changes rather than an expensive removal, surface repair and installation of a new system on the wall or ceiling. The decorative moldings will be available in a variety of patterns that facilitate change as opposed to replacement of the system.

Specifications

This invention relates to a system of multiple attachment wall and ceiling moldings.

It is common for molding systems to be made of plaster, metal, plaster coated polystyrene and wood products. The methods of attaching these moldings are by adhesives, clips, tape, screws, nails or a combination of these methods. Any holes in the surface are then filled with a compatible material and the surface is then prepared to match the rest of the finished surface.

Some systems have clamps, screws, mounting brackets or pressure-fitting snapping devices that allow the moldings to be taken apart for painting purposes. Some systems have preformed mitered corners and connecting pieces that butt together or overlap (shiplap) to allow for assembly. Other systems require mitered corners that necessitate the use of specialty tools and the knowledge of how to use those tools. There are also temporary systems that allow for removal of the entire system in order to reuse it elsewhere. These custom systems are expensive, limited in their ability to change designs and time-consuming to install. They are also cumbersome, heavy and in many cases require a skilled individual to install the system in a professional manner. There are problems of materials handling, standardized sizing, and installation.

I have found that these disadvantages and difficulties can be eradicated by making the base of the component parts from plastic. This product provides the necessary flexibility to facilitate manufacturing and variety in design. The component parts have a flexible locking step that continues for the full length of the track channel, side and cap moldings as well as medallion moldings. This locking step allows the moldings to be securely fastened for the full length of the unit rather than at predetermined points along the surface of said component part. Once a portion of the component track cover or moldings parts is squeezed together and snapped into the appropriate receiver, the rest of the track cover or molding snap into position using the force that has already been created with the initial fitting. A number of finishes from plaster, stucco, wood veneer and paint can be bonded to the exterior surface at the production level. This technology is already in place for other base materials. These exterior finishes create several different textured looks that simulate original product finishes.

The basic system consists of lengths of track channel, channel cover track, side moldings, cap moldings, decorator blocks and decorative block medallions. A variant form includes decorator blocks with a recessed indentation and wall or ceiling panels that rest on the side moldings and blocks. The channel track cover has variant depths that make it suitable for walls and ceilings. Higher ceilings require deeper channel cover to give definition to the finished grid.

By attaching a channel track with tapered flexible sides and a locking step to a supporting surface, the length of the channel can be extended to form the desired grid. By using a tapered flexible side shaped like a right-angled triangle and referred to as a locking step and a channel with a short protruding flange to receive same, all component parts snap together. This locking step design varies in size but is used to fasten all component parts to the channel track and to each other.

Once the grid has been established, the required component parts can be installed. These would consist of 90 degree corner blocks, passage blocks, three way border blocks and four way cross blocks. These blocks have a channel on the underside that allows them to snap over the flexible locking step sides of the channel track, thus receiving the channeled component and securing the blocks into position.

A corner block is used wherever there is a 90 degree angle on the outside corner of the grid. A passage block is used if there is channel track passing through it but no 90 degree angle butting to it. A three way border block is used when channel track is passing through the border and has a 90 degree track to the interior of the grid from the border. A four way cross block is used when the channel track is continuing to run in four directions from the block thus forming a 90 degree crossing pattern. These blocks are positioned in the desired locations, snapped into the desired position and adjusted if necessary.

The flexible tapered locking step sides of the channel track allow a track cover molding to snap into position on the channel track. The track cover can be cut to the required length such that it butts up to the decorative blocks as dictated by the pattern of the grid.

Decorative side moldings can be cut to length and snapped into position on either side of the track cover molding. Cap moldings can be cut to length and snapped into position on the exposed bottom edge of the track cover molding. Decorative medallions can be snapped into position on the largest exposed surface of the decorator blocks.

In addition, the ability to snap all moldings into place is also the ability to squeeze the same moldings for removal from the channel track cover or decorator blocks. This provides a significant advantage to changing molding designs as opposed to changing the entire molding system. There would be a significant number of molding designs that would be compatible with this system thereby giving the consumer a wide variety from which to choose.

Any touch-ups with a compatible material can be easily completed. If there are gaps between the molding and the supporting surface due to uneven surfaces, appropriate materials can be applied to fill any gaps. Thus a complete system of wall or ceiling moldings can be easily installed to a desired grid size with materials that are lightweight, consumer friendly and cost effective relative to other materials on the market.

In variant form, ceiling and wall panels can be used. These decorative panels rest on the top of the side moldings that attach to the track cover molding and have their dimension defined by the size of the grid and manufacturer's specifications. There is a space between the top of the side molding and the supporting surface. This plane extends into the recessed area of the decorator blocks such that a level area is provided to allow decorator panels to fit and held in position by the top edge of the side moldings.

This now forms a complete decorative wall or ceiling molding system where side moldings, cap moldings, decorator blocks with medallions and a slight reveal of the channel track cover are visible. This system can be augmented in overall design by using decorator panels and variant decorator blocks. All component parts using panels are fit within the dimensions as established by the grid and manufacturer's specifications regarding panel size. The system can be easily installed by using a few fasteners for the track channel and a cutting tool for cutting plastic to length.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

0015 Figure 1 refers to a track channel (4) having flexible tapered sides with a locking step (1) attached to a supporting surface a series of countersunk holes (3) that penetrate the surface of the track channel.

0016 Figure 2 is an isometric view of an extended length of track channel (4) that is capable of transporting wire and/or cable and thereby acting as a conduit (2).

0017 Figure 3 represents an exterior view of an extended length of channel track cover (12) that has a protrusion on both sides of its interior (6) such that the tapered sides of the track channel with the locking step (1) will snap or lock into position when the channel track cover is placed over the track channel (4) and the tapered sides with the locking step (1) of said channel track are squeezed together and thus snapped into position. Also in Figure 3 is a series of indentations or cavities (5) that have a flange on each side that will serve as the lock for the tapered flexible sides of a decorative molding.

0018 Figure 4(a) is an isometric view of an extended length of track channel cover (12). This channel track cover comes in a variant form 4(b) that is smaller and suitable for walls as opposed to ceilings.

0019 Figure 5 is a four way decorator block (8) that has a cavity (5) in its largest exposed surface with protruding flanges (6) to secure a decorative medallion (15) where the tapered flexible sides with a locking step (1) of said medallion are inserted into said cavity. The underside of said decorator block facing the supporting surface contains a four way channel track cover that is a variant form of cavity (5) and having protruding flanges (6) to accommodate the flexible tapered sides with a locking step (1) of the channel track (4).

0020 Figure 6 is a side view of said decorator block illustrating the channel cavity (5), the protruding flanges (6) and the medallion cavity (5).

0021 Figure 7 is a panel block (16) that is a variant form of the four way decorator block (8). This block has four recessed areas (19) to accommodate the weight of four decorator panels (20). These areas are on the outside corners of that part of the block nearest the supporting surface. Decorator block (16) is also capable of accepting a decorator medallion (15) in the same manner as a traditional decorator block (8).

0022 Figure 8 is a three way decorator block (9) that has a cavity (5) in its largest exposed surface with protruding flanges (6) to secure a decorator medallion (15) where the tapered flexible sides with a locking step (1) of said medallion are inserted into said cavity. The underside of said decorator block facing the supporting surface contains a three way channel track cover that is a variant form of cavity (5) and having protruding

flanges (6) to accommodate the flexible tapered sides with a locking step (1) of the channel track (4).

0023 Figure 9 is a side view of said decorator block illustrating the channel cavity (5), the protruding flanges (6) and the medallion cavity (5).

0024 Figure 10 is a panel block (17) that is a variant form of the three way decorator block (9). This block has two recessed areas (19) to accommodate the weight of two decorator panels (20). These areas are on that part of the decorator block that faces the interior of the grid and being nearest the supporting surface. Decorator block (17) is also capable of accepting a decorator medallion (15) in the same manner as a traditional decorator block (8).

0025 Figure 11 is a 90 degree decorator corner block (10) that has a cavity (5) in its largest surface with protruding flanges (6) to secure a decorator medallion (15) where the tapered flexible sides with a locking step (1) of said medallion are inserted into said cavity. The underside of said decorator block facing the supporting surface contains a right angled channel track cover that is a variant form of cavity (5) and having protruding flanges (6) to accommodate the flexible tapered sides with a locking step (1) of the channel track (4) from two sides.

0026 Figure 12 is a side view of said decorator block illustrating the channel cavity (5), the protruding flanges (6) and the medallion cavity (5).

0027 Figure 13 is a panel block (18) that is a variant form of the 90 degree decorator corner block (10). This block has one recessed area (19) to accommodate the weight of one decorator panel (20). This recessed area is on that part of the decorator block that faces the interior of the grid and being nearest the supporting surface. Decorator block (18) is also capable of accepting a decorator medallion (15) in the same manner as a traditional decorator block (8).

0028 Figure 14 is a passage decorator block (11) that has a cavity (5) in its largest exposed surface with protruding flanges (6) to secure a decorator medallion (15) where the tapered flexible sides with a locking step (1) of said medallion are inserted into said cavity. The underside of said decorator channel facing the supporting surface contains a channel track cover that is centered on the underside that is a variant form of cavity (5) and having protruding flanges (6) to accommodate the flexible tapered sides with a locking step (1) of the channel track (4) from opposite sides of the decorator block.

0029 Figure 15 is a side view of said decorator block illustrating the channel cavity (5), the protruding flanges (6) and the medallion cavity (5).

0030 Figure 16 is a cross-section of a completed portion of a grid. The extended length of track channel (4) is attached to a supporting surface by using a fastening device (7) through the countersunk holes (3) that penetrate the surface of said channel track. The

area inside the tapered flexible sides with a locking step (1) is designed to act as a conduit (2) for transporting wire and/or cable.

0031 Depending on the design of the grid, the appropriate decorator block is used. If there are no decorator panels being uses, a combination of blocks (8), (9), (10) and (11) will be used. If there are decorator panels in the system, a combination of blocks (16), (17) and (18) will be used. These blocks are fit into position by placing the channel track cover portion (12) over the track channel (4). Adjustments are made to the grid by sliding the blocks along the track until they are in the desired position.

0032 The extended length of channel track cover (12) is cut to the exact size and snapped over the tapered flexible sides (1) of track channel (4) when these sides are compressed. The cavity (5) in the track channel cover has protruding flanges (6) that allow the locking step (1) to snap into place. A shallower version of said channel track cover (12) is used on walls as opposed to ceilings. The ceilings, being higher, use a version that is deeper to add definition to the grid system. The sides of the extended length of channel track cover (12) receive decorative side moldings (13) of extended length that are cut to size. Said moldings have tapered flexible locking steps (1) on the top and bottom inside edges that allow said locking steps to snap into position in the cavity (5) of the channel track cover and lock behind the protruding flanges (6) of said cavity. A decorative cap molding (14) of extended length is cut to size to fit into the bottom of the length of channel track cover (12) in the same manner as the side moldings fit. The use of a locking step (1) and a cavity (5) with protruding flanges allows a snug

fit into the channel track cover. In figure 16, the decorator blocks that could be used for this illustration are variant decorator blocks (16) or (17). The recessed areas (19) of these decorator blocks are used to carry the weight of a decorator panel (20) as it rests on the recessed area and the top of the side moldings. The recessed area of the blocks (19) and the top of the side moldings are on the same plane such that the similar elevation allows a smooth transition from the side molding (13) to the recessed area. A decorator medallion (15) snaps into cavity (5) in the base of the decorator blocks. This medallion has flexible locking step sides (1) and is held in place by the protruding flanges (6) in the base of the decorator block.

0033 Figure 17 is a cross section of the track channel (4), affixed by a fastening device (7) through countersunk holes (3) that penetrate the surface of the track channel. The channel track has flexible tapered side called locking steps (1) and a cavity between the flexible sides (2) that acts as a conduit for wire and cable. This channel track extends into the decorator blocks. Decorator blocks (16) or (17) snap over the channel track by having a cavity (5) with protruding flanges on the sides (6) that allow the locking step to stay in place. A decorator medallion (15) fits into the bottom of the decorator block in the same manner as the block snaps into position over the channel track (4). A channel track cover of extended length (12) is cut to size and snapped into position over the channel track (4). Side moldings of extended length (13) and cap moldings of extended length (14), are cut to size and snapped into position in the cavities (5) with the protruding flanges (6) on the sides. A portion of the channel track cover between the cap molding and the side molding is visible. This is known as a reveal. A recessed area of

decorator block (19) and the top of the side molding (13) are the support or resting area for the decorator panels (20).

0034 Figure 18 is a view of a partial grid system utilizing most of the component parts in a manner that illustrates how a finished grid would appear. A larger grid would be necessary to show all component parts, but this also illustrates how the parts would be used in a paneled and non-paneled grid. Extended lengths of channel track (4) cut to size and anchored by fasteners (7) through countersunk holes (3) that penetrate the channel track. Variant form of a 90 degree corner block (18) with a recessed area (19) to receive a decorator medallion (15) and a decorator panel (20). A variant form of a four way decorator block (16) with recessed areas (19) to receive a decorator medallion (15) and a decorator panel (20). An extended length of channel track cover (12) with decorator cap molding (14) cut to size and decorator side moldings (13) also cut to size. A passage decorator block (11) that covers the channel track (4) but does not have the ability to receive channel track from more than two opposite sides. This block (15) would be used in a system that is not using decorator panels and in conjunction with the regular decorator blocks (8), (9) and (10).

DETAILED DESCRIPTION OF THE INVENTION

0035 This system consists of lengths of channel track, channel track cover, side moldings, cap moldings, decorator blocks and decorative block medallions. By using injection molding systems, medallions and decorator blocks can be made from lightweight plastic and have custom exterior patterns. Similarly, lengths of track channel, channel track cover, side moldings and cap moldings can be extruded to standard lengths that make it cost-effective in mass production. Current technology allows a variety of finishes to be bonded to the plastic surface thereby allowing a lightweight, easy to use, decorative molding to have an exterior finish that replaces other moldings that have a wood, plaster or metal finish.

0036 The initial step in this process is to establish the size of the grid to be covered. Once this has been accomplished through exact measurements, the required components parts can be procured and installation may commence.

0037 By attaching a "U"- shaped channel track with tapered flexible sides and a locking step by its base to a supporting surface, the length of the channel can be extended to form the desired grid. By using a tapered flexible side shaped like a right-angled triangle and referred to as a locking step and a channel with a short protruding flange to receive same, all component parts snap together. This locking step design varies in size but is used to fasten all component parts to the channel track and to each other.

0038 Once the grid has been established, the required component parts can be installed. These would consist of 90 degree corner blocks, passage blocks, three way border blocks and four way cross blocks. These blocks have a channel on the underside that allows them to snap over the flexible locking step sides of the channel track, thus receiving the channeled component and securing the blocks into position.

0039 A corner block is used wherever there is a 90 degree angle on the outside corner of the grid. A passage block is used if there is channel track passing through it but no 90 degree angle butting to it. A three way border block is used when channel track is passing through the border and has a 90 degree track to the interior of the grid from the border. A four way cross block is used when the channel track is continuing to run in four directions from the block thus forming a 90 degree crossing pattern. These blocks are positioned in the desired locations, snapped into the desired position and adjusted if necessary.

0040 The flexible tapered locking step sides of the channel track allow a track cover molding to snap into position on the channel track. The track cover can be cut to the required length such that it butts up to the decorative blocks as dictated by the pattern of the grid.

0041 Decorative side moldings can be cut to length and snapped into position on either side of the track cover molding. Cap moldings can be cut to length and snapped into

position on the exposed bottom edge of the track cover molding. Decorative medallions can be snapped into position on the largest exposed surface of the decorator blocks.

0042 In addition, the ability to snap all moldings into place is also the ability to squeeze the same moldings for removal from the channel track cover or decorator blocks. This provides a significant advantage to changing molding designs as opposed to changing the entire molding system. There would be a significant number of molding designs that would be compatible with this system thereby giving the consumer a wide variety from which to choose.

0043 Any touch-ups with a compatible material can be easily completed. If there are gaps between the molding and the supporting surface due to uneven surfaces, appropriate materials can be applied to fill any gaps. Thus a complete system of wall or ceiling moldings can be easily installed to a desired grid size with materials that are lightweight, consumer friendly and cost effective relative to other materials on the market.

0044 In variant form, ceiling and wall panels can be used. These decorative panels rest on the top of the side moldings that attach to the track cover molding and have their dimension defined by the size of the grid and manufacturer's specifications. There is a space between the top of the side molding and the supporting surface. This plane extends into the recessed area of the decorator blocks such that a level area is provided to allow decorator panels to fit and held in position by the top edge of the side moldings.

0045 A variant form includes decorator blocks with a recessed indentation and wall or ceiling panels that rest on the side moldings and blocks. The channel track cover has variant depths that make it suitable for walls and ceilings. Higher ceilings require deeper channel cover to give definition to the finished grid.

0046 This now forms a complete decorative wall or ceiling molding system where side moldings, cap moldings, decorator blocks with medallions and a slight reveal of the channel track cover are visible. This system can be augmented in overall design by using decorator panels and variant decorator blocks. All component parts using panels are fit within the dimensions as established by the grid and manufacturer's specifications regarding panel size. The system can be easily installed by using a few fasteners for the track channel and a cutting tool for cutting plastic to length.

CLAIMS

“What I claim as my invention is ...

0047

1. A U-shaped channel track where the base of the U-shape is anchored to a supporting surface. The base of the channel has a series of countersunk holes that penetrate the surface and allow a fastener to affix the channel track to said supporting surface. This track is attached to the supporting surface in a predetermined pattern to make a grid.
2. The channel in Claim 1 is deep enough and wide enough to accommodate wire and/or cable thus forming a conduit. This channel continues for an extended length.
3. The channel in Claim 1 resembles an inverted “U” with the sides of said channel being perpendicular to the base of the channel. The inside of these sides is smooth and continues away from the base for a short distance to a point where they form a vertex of a right angled triangle with the inside of the track forming the right angled long side of the triangle. This beveled extension of the sides of the channel is a locking step and allows these same sides to be flexible when pressed together such that a cover can snap into position when placed over it.
4. A decorator 90 degree corner block that has a channel track cover on the underside that fits over the channel track from Claim 1. The block track cover is designed such that the underside is U-shaped with smooth sides that proceed from the base of the track cover. After a short distance, there is a rectangular protrusion that juts out slightly and continues to the open end. The length of this

raised area is slightly shorter than the distance from the base of the track cover in Claim 1 to the point where the wide tapered edge commences in Claim 3. The corner block track cover will snap into position with a snug fit when the sides of the channel track from Claim 1 are squeezed together and covered.

5. The largest exterior surface of said block from Claim 4 has an indentation in the center similar in design to that of the channel track cover thus allowing an ornamental medallion to be affixed by squeezing the sides of said medallion together and snapping it into the cavity in the decorator block.
6. A three way decorator border block that has a channel cover similar in design as that in Claim 4. This channel cover on the underside is in the shape of a "T" that snaps into place over two sections of channel track from Claim 1. This block is designed to have channel track protruding from three sides. This decorator block also has an indentation as in Claim 5.
7. A four way decorator cross block that has a channel cover similar in design to that in Claim 4. This channel cover on the underside of said block is in the shape of cross with two sections of channel cover intersecting at 90 degrees and continuing through the block. This block is designed to have channel track protruding from four ports. This block also has an indentation as in Claim 5.
8. A passage decorator block that has a channel cover similar in design to that of Claim 4. The channel cover on the underside runs through the center of the block and continues from side to side thus allowing the block to snap onto the channel track. This block is designed to have channel track run straight through the block.

9. A "U"-shaped channel track cover that fits over the channel track in Claim 1. The inside of said channel track cover is designed as in Claim 4 and snaps over the flexible sides as in Claim 3 of the channel track detailed in Claim 1. This allows for a snug fit of the channel track cover over the channel track in the T-shape. The channel track cover is able to be locked into position and slide along the channel track. This channel track cover fits over the track channel in the same manner as the decorator blocks fit over the track channel. In variant form, the channel track cover has amore shallow depth that makes it suitable for walls rather than ceilings. The deeper version is designed to give definition to the higher supporting surface.
10. There is a series of "T"- shaped indentations or cavities on the side and bottom of the channel track cover and on the bottom of the largest exposed surface of the decorator blocks. A short distance inside this cavity, there is a small protruding flange on either side of said cavity where the tapered locking step sides of moldings set out in Claims 7, 8, and 12 snap into position as detailed in Claim 9. The design in each case is the same but there is a size differential. The indentations on the sides of the channel track cover are at the same elevation on each side while the indentation on the exterior bottom of the channel cover is centered.
11. As in Claim 2, the track cover is extended in length.
12. As in Claim 3, side and cap moldings of extended lengths with a similar tapered side that allows the moldings to snap into position in the "T"- shaped indentations

around the perimeter of the track cover as detailed in Claim 5. These moldings can slide in these T-shaped indentations for adjustment purposes.

13. In variant form, the 90 degree corner, three way border and four way cross decorator blocks have recessed indentations that commence a short distance from the edge of the block that is nearest the supporting surface. The depth of this recess is the same elevation as the distance between the top of the side molding and the upper edge of the track cover molding after the side molding has been attached to the supporting surface. This allows for a decorative panel to rest on this area. All indented recessed areas face the inside of the grid as established in Claim 1.
14. All side molding attachments, cap moldings and block medallions can be compressed together for ease of installation and removal to and from the channel track cover and blocks respectively. This allows for interchangeable decorative moldings.”

ABSTRACT

0048 This invention refers to a decorative system of ceiling and wall moldings that consists of lightweight plastic component parts having a variety of external designs and finishes. A grid is established on the supporting surface and once the channel track is anchored into position, the decorator blocks can be fit into position. A channel track cover, side moldings and cap moldings can than be cut to the desired length and uniquely snapped into the anchored track to form a complete wall or ceiling molding system.

COMPONENTS PARTS LIST

1. Tapered flexible sides of "U-shaped" channel track with a locking step.
2. Channel cavity conduit for wire and cable.
3. Countersunk holes for attaching track to a supporting surface.
4. Extended length of "U-shaped" channel track.
5. "T-shaped" indentation to receive tapered flexible locking step sides of channel track.
6. Protruding flange to act as a stop for tapered locking step sides of channel track.
7. Screw or other attaching device to secure the channel track to a supporting surface.
8. Four way (4-way) cross decorator block.
9. Three way (3-way) "T-shaped" decorator block.
10. 90 degree corner decorator block.
11. Passage decorator block.
12. Extended length of channel track cover.
13. Side molding of extended length.
14. Cap molding of extended length.
15. Medallion for the decorator blocks.
16. Variant form of the four way cross decorator block with recess to be used with panels.
17. Variant form of the three way "T-shaped" decorator block with recess to be used with panels.
18. Variant form of the 90 degree decorator corner block with recess to be used with panels.
19. Recessed indentations to receive decorator panels.
20. Decorative panels.

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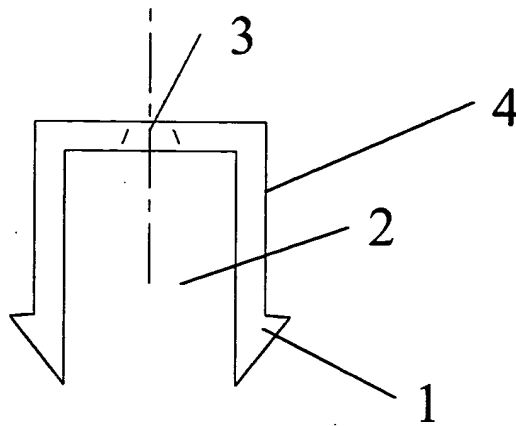


FIGURE 1

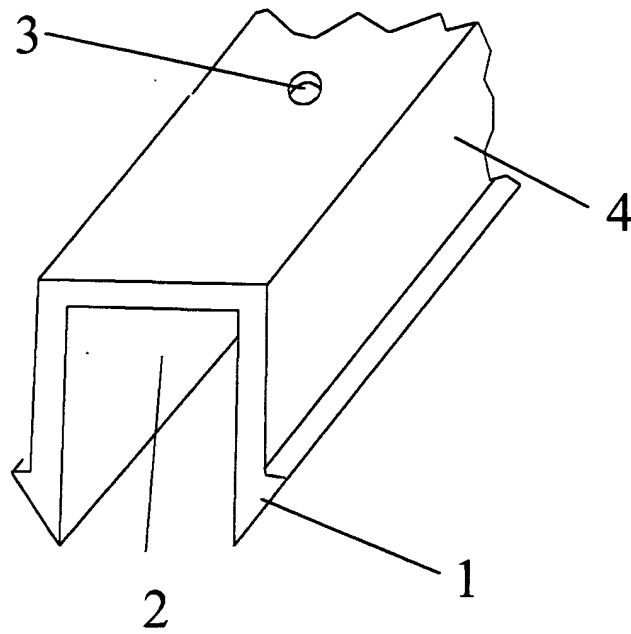


FIGURE 2

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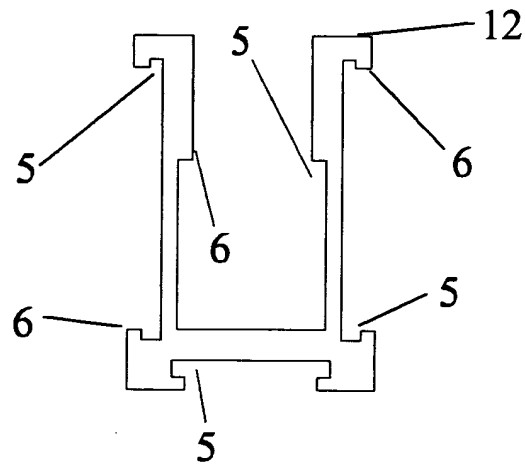


FIGURE 3

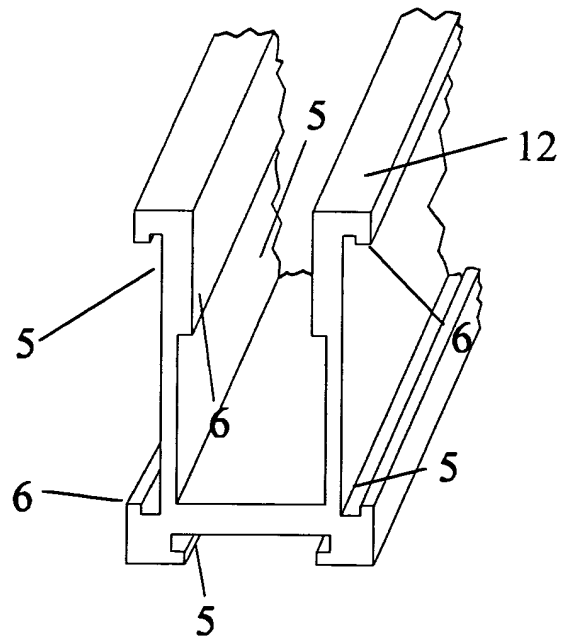


FIGURE 4

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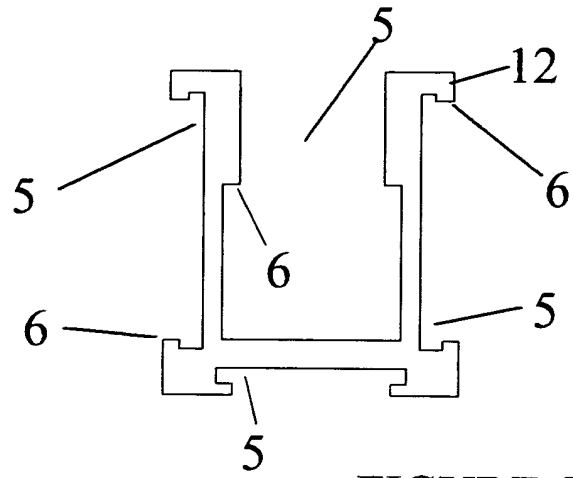


FIGURE 5

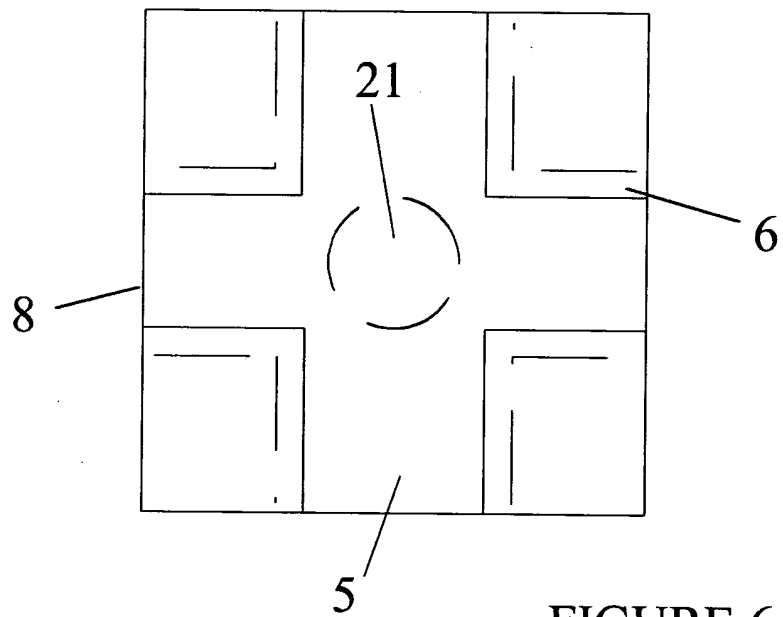


FIGURE 6

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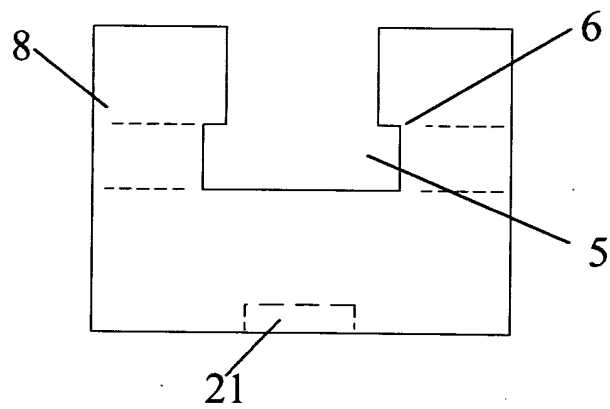
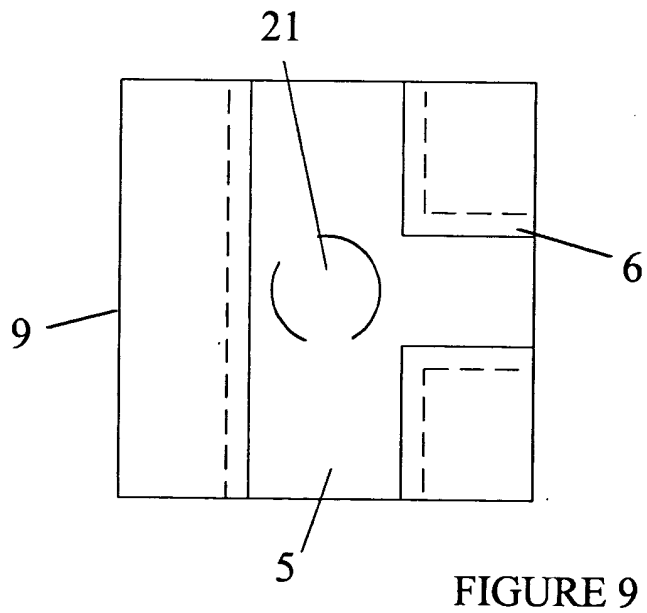
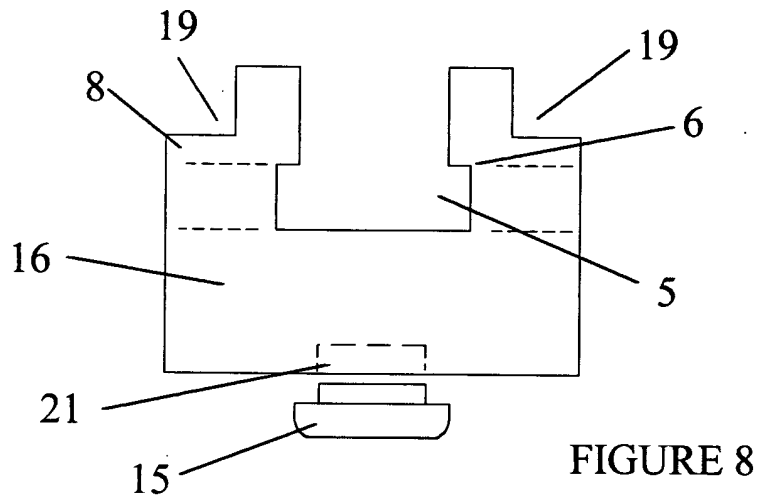


FIGURE 7

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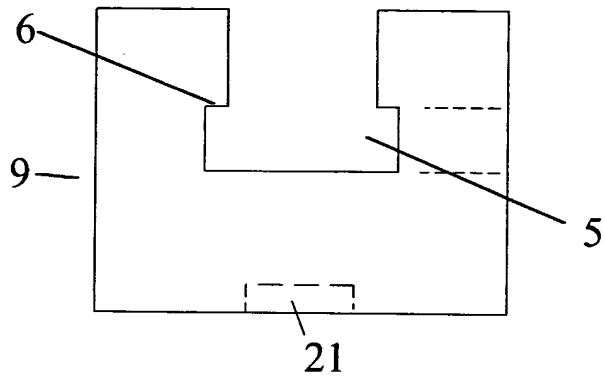


FIGURE 10

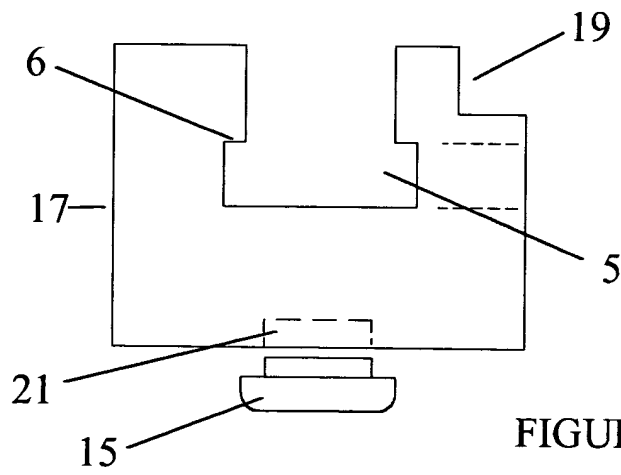


FIGURE 11

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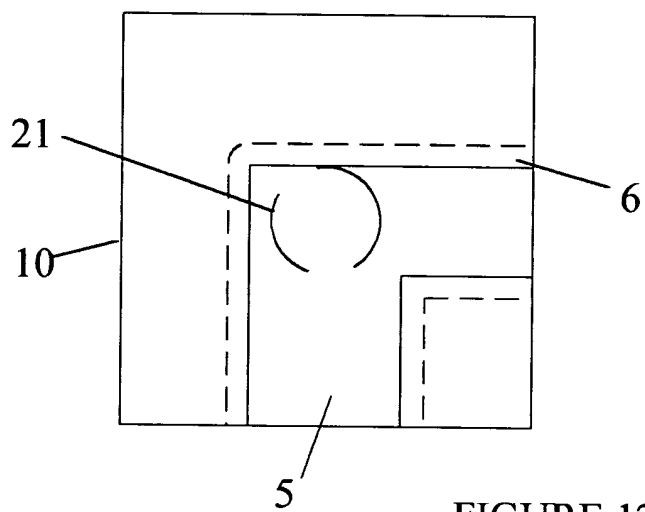


FIGURE 12

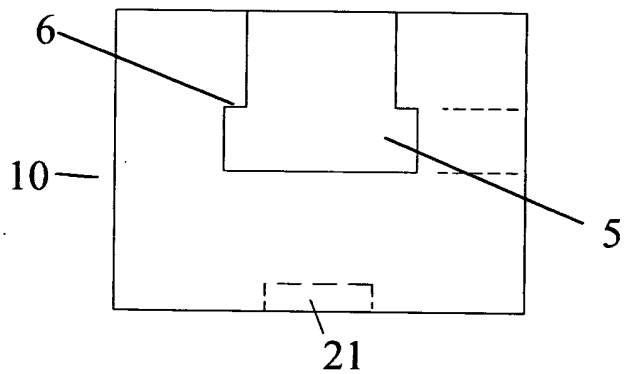
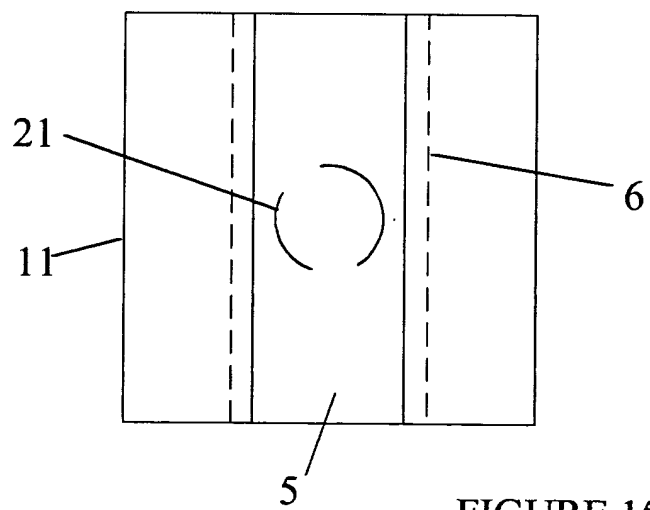
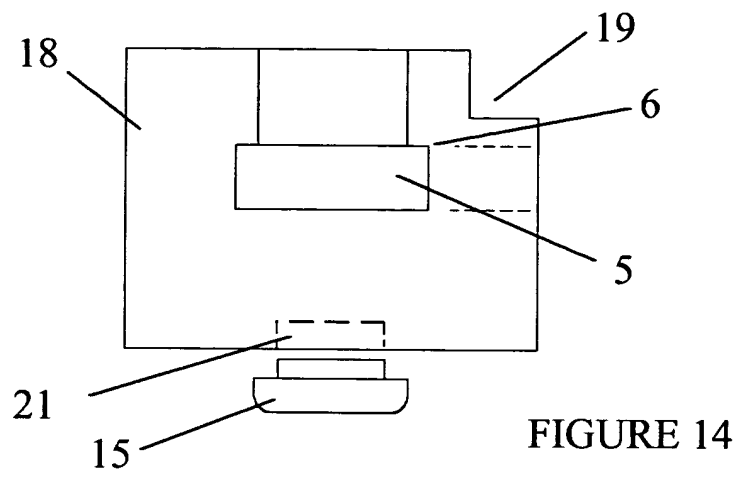


FIGURE 13

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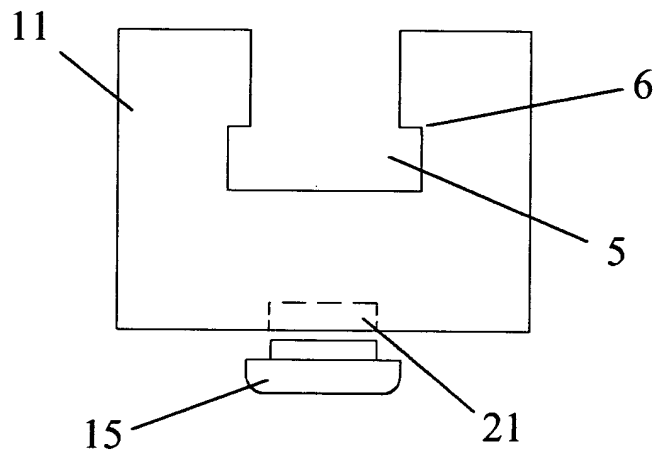
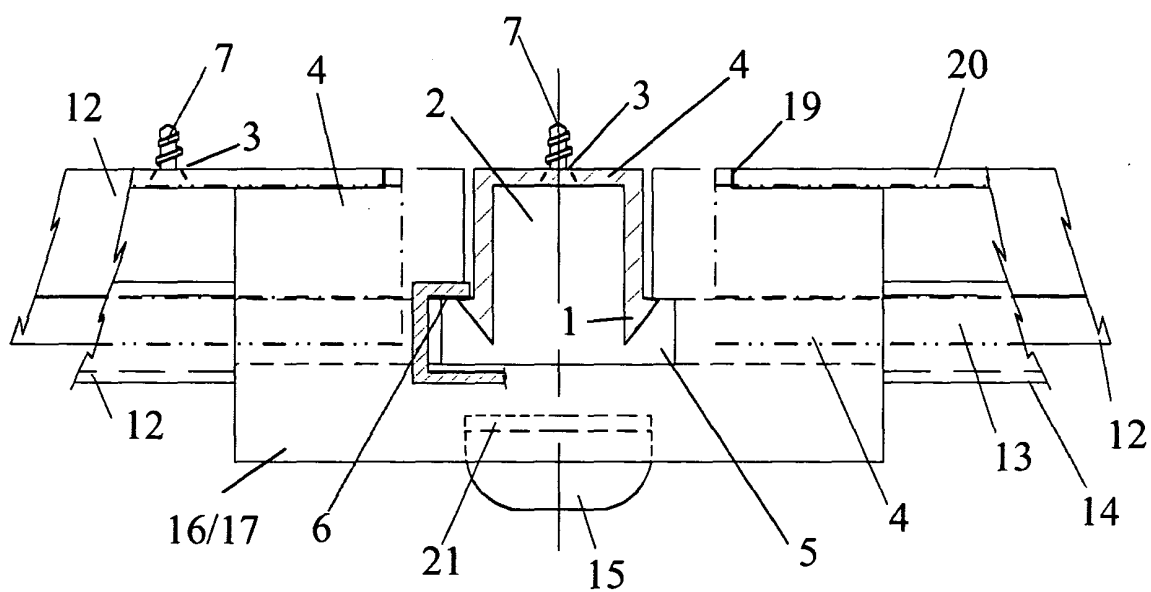


FIGURE 16

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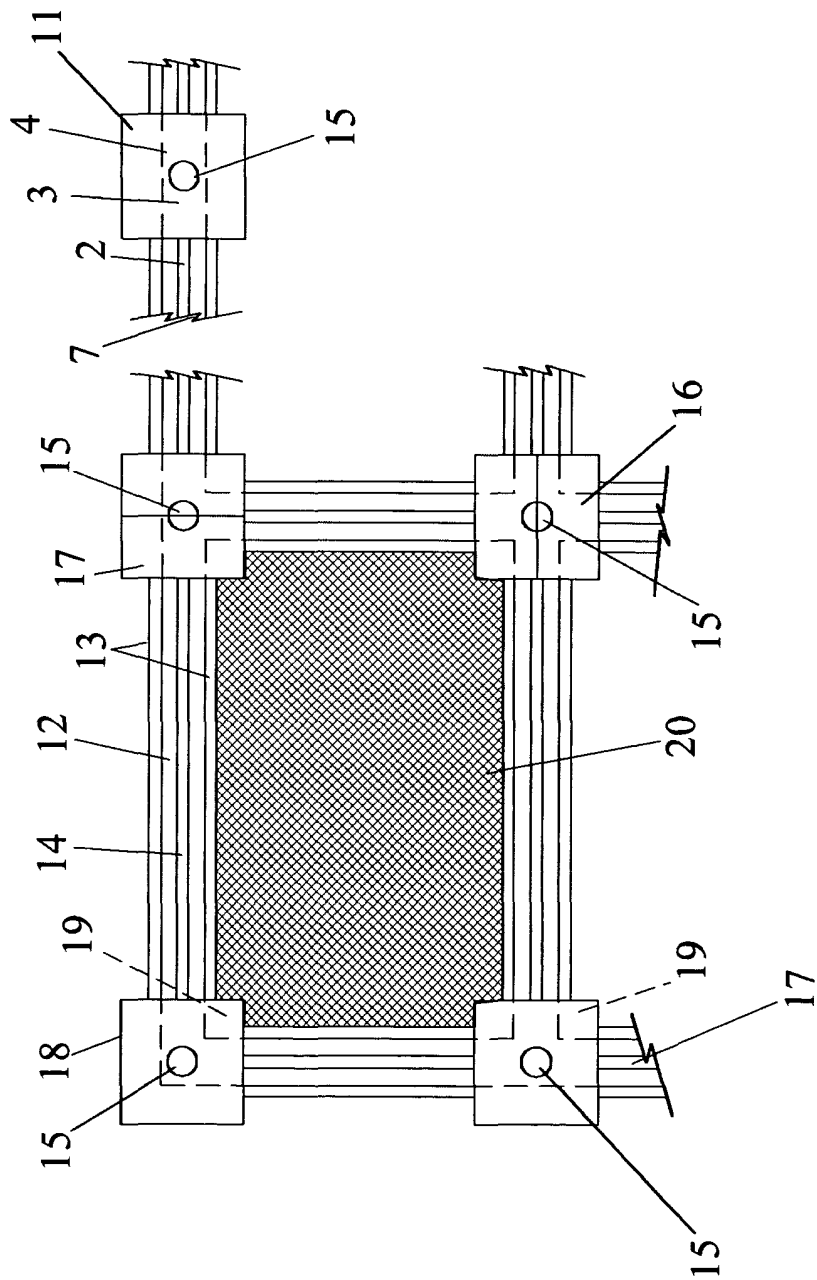


FIGURE 19

**Petition for Grant of a Patent
(AMENDED APPLICATION)**

1. The applicant, William Maurice Jamieson, whose complete address is 2 Fox Point, Toronto, Ontario, Canada, M6M 3B2, requests the grant of a patent for an invention, entitled **Snap Track Decorative Moldings**, which is described and claimed in the accompanying specification.
2. This application is a division of application number filed in Canada N/A.
3. The inventor is William Maurice Jamieson, whose complete address is 2 Fox Point, Toronto, Ontario, Canada, M6M 3B2, 416-247-9124 and the applicant owns in Canada the whole interest in the invention.
4. The applicant requests priority in respect of the application on the basis of the following previously filed application:

<i>Country of filing</i>	<i>Application Number</i>	<i>Filing Date</i>
N/A	N/A	N/A

5. The applicant appoints William Maurice JAMIESON, whose complete address is 2 Fox Point, Toronto, Ontario, Canada, M6M 3B2, 416-247-9124 as the applicant's representative in Canada, pursuant to section 29 of the Patent Act.
6. The applicant appoints William Maurice JAMIESON, whose complete address is 2 Fox Point, Toronto, Ontario, Canada, M6M 3B2, 416-247-9124, as the applicant's patent agent.
7. The applicant believes that the applicant is entitled to claim status as a "small entity" as defined under Section 2 of the *Patent Rules*.
8. The applicant requests that **Figure No. 7** of the drawings accompany the abstract when it is open to public inspection under section 10 of the Patent Act or published.

William Maurice Jamieson

Date

SNAP TRACK DECORATIVE MOLDINGS

Abstract

In decorative moldings, the customary methods of installation are by fastening the component parts to a supporting surface by using adhesives, clips, tape, screws or nails and subsequently filling any holes in the surface with a compound that is compatible to the molding material. Some plaster moldings use cement-based adhesives for bonding.

In this invention, a main track of extended length and flexible sides is anchored to a supporting surface that typically would be a wall or ceiling. The flexible sides are tapered at the end to form a locking step that is designed to receive a cover. The track channel is also designed to act as a conduit for transporting electrical wires or cable. Once the desired wall or ceiling grid is established, the channel track can be cut to the desired length.

Decorative blocks are fastened to the supporting surface at strategic locations to act as corners as well as transition points between sections of the wall or ceiling grid. The largest exposed surface of these decorator blocks has a recess or counterbore in the center that allows said block to be affixed to a supporting surface. For design purposes, this counterbore can be covered with a decorative medallion. Once mounted into position, these blocks can be adjusted to fit precisely into position at the desired points of intersection on the grid.

The cover for this fixed track channel has such a design that allows this cover to snap into position when fit over the channel track. Once the exact grid is established, the channel track cover can be cut to the required length such that it butts up to the decorative blocks. The inside of said channel track cover has short protruding flanges that serve as a stop for the tapered flexible locking step sides of the track channel once the track channel cover is snapped into position.

The result is decorative grid molding system that can be installed with a minimum of effort and is customized to the individual project.

Specifications

This invention relates to a system of multiple attachment wall and ceiling moldings.

It is common for molding systems to be made of plaster, metal, plaster coated polystyrene and wood products. The methods of attaching these moldings are by adhesives, clips, tape, screws, cement-based materials, nails or a combination of these methods. Any holes in the surface are then filled with a compatible material and the surface is then prepared to match the rest of the finished surface.

Some systems have clamps, screws, mounting brackets or pressure-fitting snapping devices that allow the moldings to be taken apart for painting purposes. There are systems that have preformed mitered corners and connecting pieces that butt together or overlap (shiplap) to allow for assembly; systems that require the corners to be mitered on site. There are also temporary systems that allow for removal of the entire system in order to reuse it elsewhere. These custom systems are expensive, time-consuming to install and generally require specialty tools and skill level. They are also cumbersome, heavy and in many cases require a skilled individual to install the system in a professional manner. These problems are compounded by materials handling, standardized sizing, and installation.

I have found that these disadvantages and difficulties can be eradicated by making the base of the component parts from plastic. This product provides the necessary flexibility to facilitate manufacturing and variety in design. The component parts have a flexible locking step that continues for the full length of the track channel and track channel cover. There is also a counterbore in the exposed surface of the decorator blocks that facilitates the attachment to a supporting surface. The locking step allows the moldings to be securely fastened for the full length of the unit rather than at predetermined points along the surface of said component part. Once a portion of the component track cover or moldings parts is squeezed together and snapped into the appropriate receiver, the rest of the track cover or molding snap into position using the force that has already been created with the initial fitting. A number of finishes from plaster, stucco, wood veneer and paint can be bonded to the exterior surface at the production level. This technology is already in place for other base materials. These exterior finishes create several different textured looks that simulate authentic product finishes. This system can be easily installed by using a few fasteners for the track channel and a cutting tool for cutting the plastic to length.

The basic system consists of lengths of track channel, lengths of channel track cover and decorator blocks. A variant form includes decorator blocks with a recessed indentation and wall or ceiling panels that rest on the side moldings and blocks. The channel track cover has variant depths that make it suitable for walls and ceilings. Higher ceilings require deeper channel cover to give definition to the finished grid. Once the grid has been established, the required component parts can be installed.

A decorator block is used wherever there is an outside corner of the grid or wherever a block is desired on the perimeter of the grid as well as inside the grid. Generally, these points will occur at right angles or perpendicular points within the grid designed system. If different geometric designs are being used, the blocks are installed at strategic locations and both the track channel and track channel cover will be mitered accordingly.

By attaching a channel track with tapered flexible sides and a locking step to a supporting surface, the length of the channel can be extended to form the desired grid. By using a tapered flexible side shaped like a right-angled triangle and referred to as a locking step and a channel with a short protruding flange to receive same, component parts snap together. This locking step design is used to fasten the track channel cover to the track channel.

The flexible tapered locking step sides of the channel track allow a channel track cover molding to snap into position over the channel track. The channel track cover can be cut to the required length such that it butts up to the decorative blocks as dictated by the pattern of the grid.

Any touch-ups with a compatible material can be easily completed. If there are gaps between the molding and the supporting surface due to uneven surfaces, appropriate caulking and other filler materials can be applied to close any gaps. Thus, a complete system of wall or ceiling moldings can be easily installed to a desired grid size with materials that are lightweight, consumer friendly and cost effective relative to other materials on the market.

Claims

The embodiments for which an exclusive privilege is claimed are as follows:

1. A "U-shaped" channel track where the base of the U-shape is anchored to a supporting surface. The base of the channel has a series of countersunk holes that penetrate the surface and allow a fastener to affix the channel track to said supporting surface. This track is attached to the supporting surface in a predetermined pattern to form a grid.
2. The channel in Claim 1 is deep enough and wide enough to accommodate wire and/or cable thus forming a conduit. This channel continues for an extended length.
3. The channel in Claim 1 resembles an inverted "U" with the sides of said channel being perpendicular to the base of the channel. These sides are flexible enough to allow compression. The inside of these sides is smooth and continues away from the base for a short distance to a point where they form a vertex of a right angled triangle with the inside of the track forming the right angled long side of the triangle. This beveled extension of the sides of the channel forms a locking step and allows these same sides to be compressed when pressure is applied such that a cover can snap into position when placed over it.
4. A "U-shaped" channel track cover that fits over the channel track in Claim 1. The inside of said channel track cover is designed such that when placed over the flexible sides of the track channel and pressure is applied, said track channel cover snaps over the flexible sides as in Claim 3. This snapping into position allows for a snug fit of the channel track cover over the channel track. In variant form, the channel track cover has a more shallow depth that makes it suitable for walls rather than ceilings. The deeper version is designed to give definition to the higher supporting surface.

Component Parts List

1. Lengths of channel track with tapered flexible “U-shaped” sides with a locking step.
2. Decorator blocks.
3. Lengths of “U-shaped” channel track cover that receives the locking step on the inside.

Legend For Figures To Assist In Description

1. Track Channel
2. Flexible Sides With Locking Step
3. Countersunk Holes
4. Conduit Cavity
5. Decorator Block
6. Counterbore in Decorator block
7. Track Channel Cover
8. Interior Of Track Channel Cover With Protruding Flanges To Receive Locking Step

Description

Figure 1 refers to a track channel of extended length (1) having flexible tapered sides with a locking step (2) whereby the track channel is attached to a supporting surface through a series of countersunk holes (3) that penetrate the surface of the track channel. The track channel cavity forms a conduit (4) for transporting wire and/or cable.

Figure 2 is an isometric view of an extended length of track channel (1) with flexible sides with a locking step (2) that is capable of transporting wire and/or cable and thereby acting as a conduit (4). It has a series of countersunk holes (3) for fastening said channel to a supporting surface.

Figure 3 is a decorator block (5) that has a counterbore (6) in the center of its exposed surface to allow fastening to a supporting surface.

Figure 4 represents an cross section of an extended length of channel track cover (7) that has a protrusion on opposite sides of its interior (8) such that the flexible sides of the track channel (1) with the locking step (2) will snap or lock into position when the channel track cover is placed over the track channel (1) and the flexible sides with the locking step (2) of said channel track are squeezed together thus allowing the snapping into position.

Figure 5 is an isometric view of an extended length of track channel cover (7) illustrating the interior flanges (8) that allow the locking step to snap into position.

Figure 6 illustrates an extended length of track channel (1) being anchored to a supporting surface by a fastener through a countersunk hole in its surface (3) and covered by a similar extended length of track channel cover (7) that has a protrusion on opposite sides of its interior (8) that allows the flexible sides of the track channel (1) to lock into position when the sides of the track channel (2) are compressed and the track channel cover (7) is placed over top and secured in position by a locking step (2).

Figure 7 is a cross-section of a completed portion of a grid. Decorator Block (5) anchored to a supporting surface with a fastening device through a counterbore (6) at a predetermined point on a grid. An extended length of track channel (1) is attached to a supporting surface by using a fastening device through the countersunk holes (3) that penetrate the surface of said channel track. The area inside the tapered flexible sides with a locking step (2) is designed to act as a conduit (4) for transporting wire and/or cable. The extended length of channel track cover (7) is cut to the exact size and snapped over the tapered flexible sides (2) of track channel (1) when these sides are compressed. The interior of the track channel cover has protruding flanges on opposite sides (8) that allow the locking step (2) to snap into place. As a variant, a shallower version of said channel track cover (7) is used on walls as opposed to ceilings. The ceilings, being higher, use a version that is deeper to add definition to the grid system.

Figure 8 is a front view of a partially completed grid system utilizing the component parts in a manner that illustrates how a finished grid would appear. A larger grid would be necessary to show multiples of said component parts. This figure illustrates the decorator blocks (5), track channel (1), holes penetrating the surface of the track channel (3) and track channel cover (7).

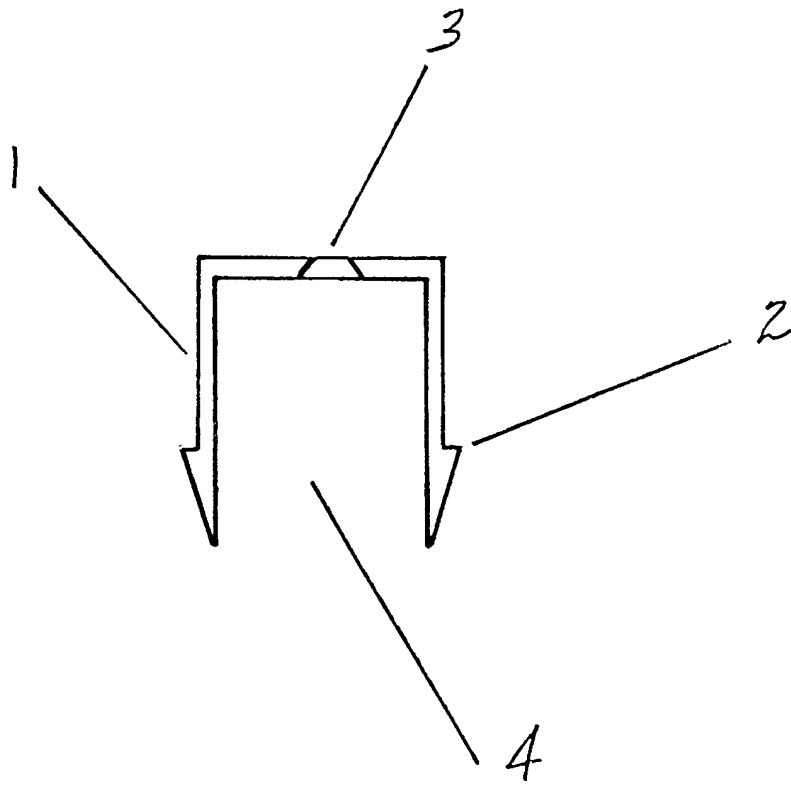


FIGURE 1

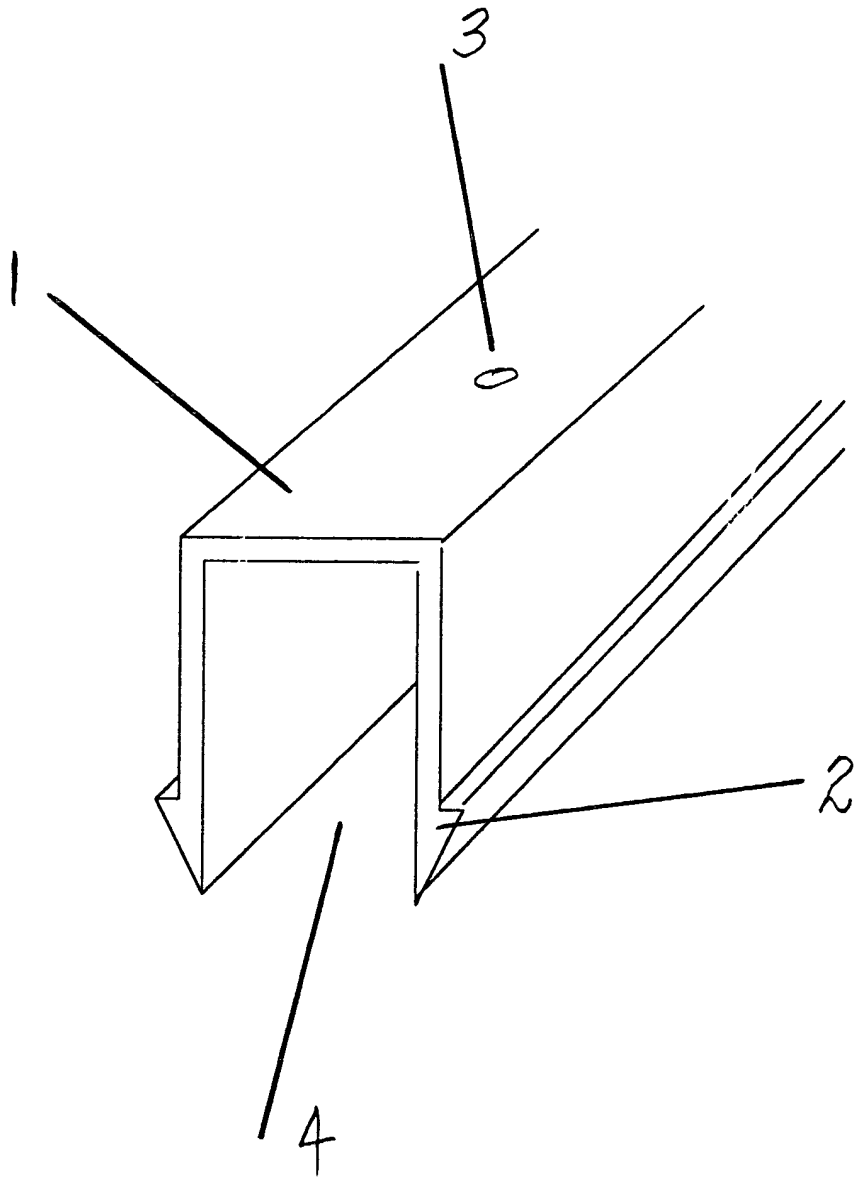


FIGURE 2

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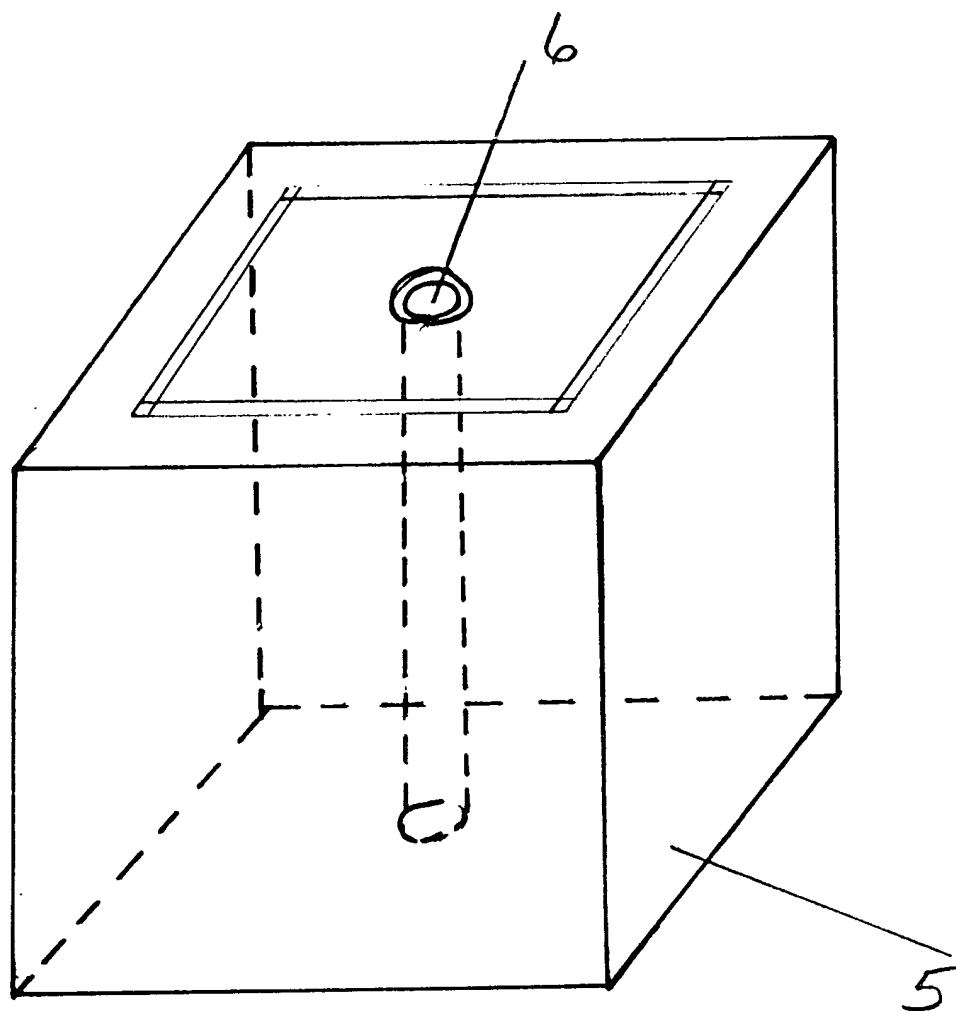


FIGURE 3

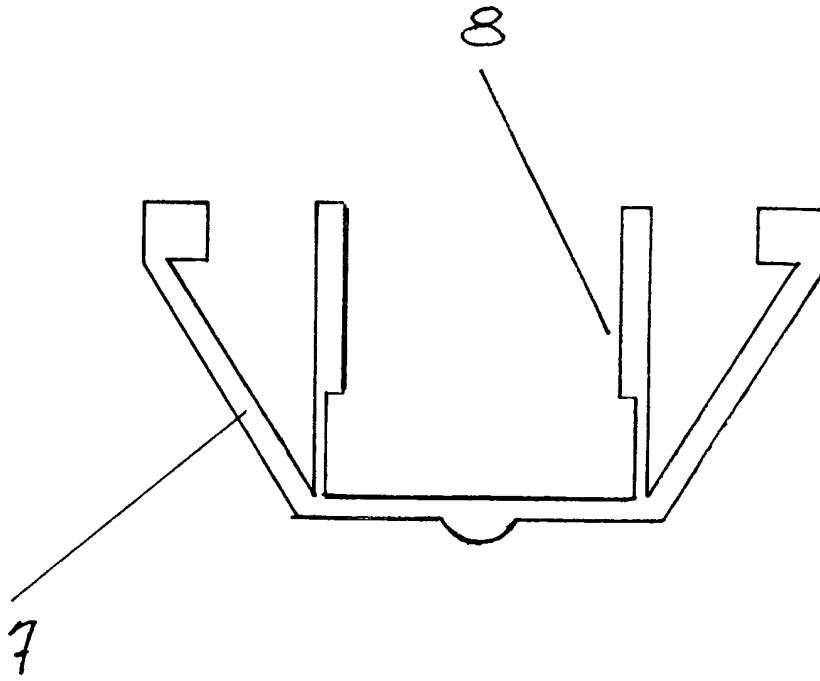


FIGURE 4

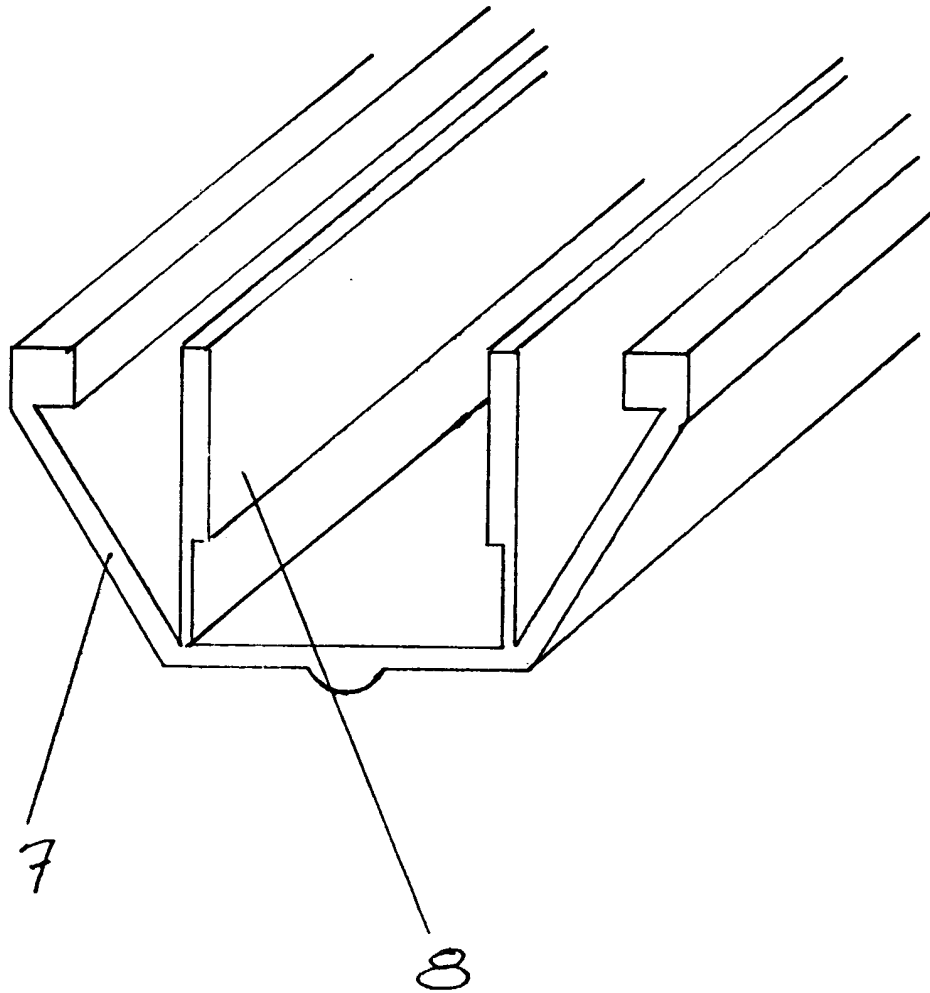


FIGURE 5

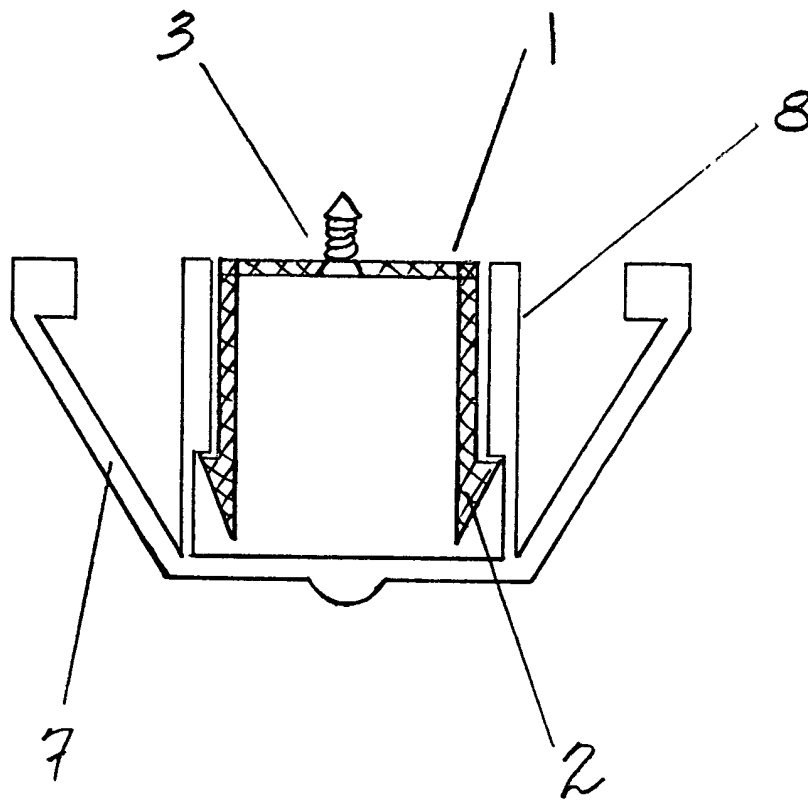


FIGURE 6

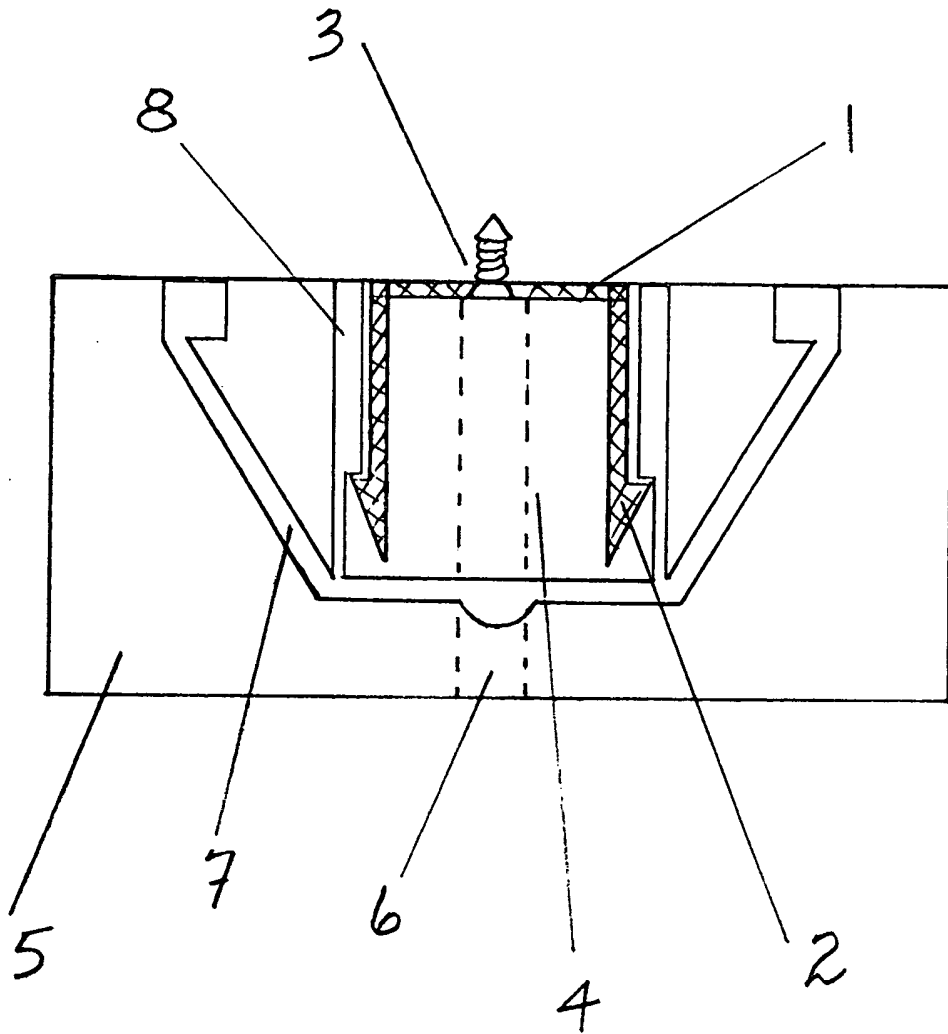


FIGURE 7

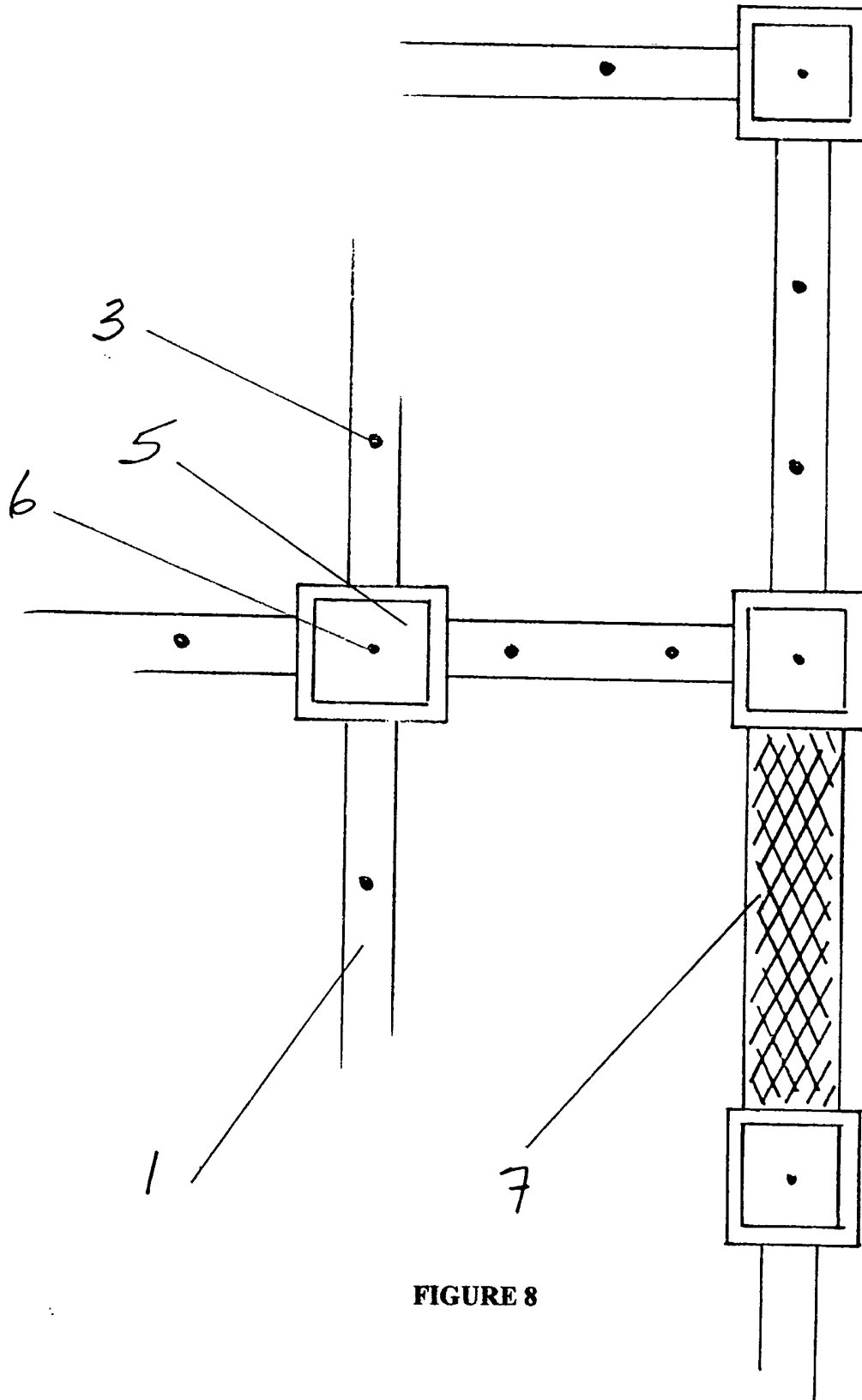


FIGURE 8

SNAP TRACK DECORATIVE MOLDINGS
William Maurice Jamieson
416-247-9124

